███████████████████

BellSouth currently has the capability to connect and transmit EDI
documents with the following three methods:

INDIAL DIRECTLY TO BELLSOUTH

BellSouth has a Gateway Communication product that allows trading
partners to dial into its EDI Gateway, drop off their documents, and
retrieve documents that belong to them. The current requirements for this
service are:

MODEM Requirements
Acceptable speeds are 4800 - 14.4
Bysync protocol

BST's modems are AT&T Paradyne Comsphere 3810 PLUS V.34. AT&T
Paradyne has provided a list of modem brands that were successfully
tested against the Comsphere 3810 PLUS modem during its Beta testing.
Those passing tests in synchronous dial mode are:

Comsphere 3810
Comsphere 3800 PLUS V.34 Series
UDS V 3400
UDS V 3229
other modems may work, but are unproved.

Trading Partners are assigned a log-on ID and password for their
mailbox and are required to send this information at log-on time. The
telephone number used for in-dial is a Birmingham, Alabama, local
telephone number that is connected to a band of modems.

VALUE ADDED NETWORK (VAN) SERVICE

BellSouth uses Harbinger VAN services as its primary VAN. The trading partner may subscribe to any VAN of its choice. Most registered VANs provide interconnection between them so data can transfer to the appropriate trading partner VAN.

However, interconnection causes slower delivery of documents and those conditions must be recognized and considered if guaranteed time delivery of documents is critical to the trading partner.

Each trading partner is responsible for its own delivery method to its VAN and most VANs can accommodate various methods of connectivity to their services.

CONNECT:DIRECT™

CONNECT:DIRECT (formerly Network Data Mover— NDM) is a file transfer product. CONNECT:DIRECT is a trademark of Sterling Software, Inc. Both partners must have installed the appropriate version of CONNECT:direct.

BellSouth is currently running the mainframe version of this product, although this product is available on multiple platforms. BellSouth presently has working solutions with CONNECT:direct trading partners using the following platforms:

SNA

IBM MVS

IBMVSE

IBM AS/400

IBM RS/6000

DEC VAX

MS-DOS-Based PC

SUN UNIX (in test)

TCP/IP

IBM MVS

IBM RS/6000 (in test)

Tandem

Windows NT

HP UNIX

SUN UNIX (in test)

TAFI

TAFI, the Trouble Administration and Facilitation Interface, is an interactive system which allows users to enter trouble reports, status trouble reports, modify reports, and receive estimated times for repair. The system will guide the CLEC repair and maintenance representative through a series of steps designed to pinpoint the problem and, in many cases, initiate the repair while the end user is on the telephone.

The TAFI system requires a dial-up or LAN to LAN connection. TAFI is a character-based system that requires VT220 terminal emulation for communications. For the dial-up connection, a PC running an appropriate software package such as SmartTerm 420 for Windows or a physical VT220 is needed. For the LAN to LAN connection, a Telnet protocol with VT220 keyboard mapping is used.

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Facility Based CLEC Activation Requirements

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LOCAL TRUNKING REQUIREMENTS

This section assumes that the CLEC has already completed the joint facility planning process with BellSouth to determine specific network design and trunking requirements.

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The Competitive Local Exchange Companies (CLECs) will submit requests to BellSouth for Feature Group D (FGD) two way (Originating and Terminating), or one way (Terminating) groups only from their Switch to a BellSouth tandem or end office(s).

- These groups will be used to originate and/or terminate local or IntraLATA toll traffic.

- BellSouth will establish the requested trunk groups for the CLEC at end office or access tandem switches where FGD switching is provided.

████████████████████

The CLEC will submit Access Service Requests for the installation or other activities for trunk groups with the following Traffic Types:

- Local/IntraLATA Toll Group

- ASR Traffic Type (TRF TYP) = LT

The "LT" trunk group is a one way terminating or two way group from the CLEC's switch to a BellSouth (BST) tandem or end office. The group will be used to terminate local or IntraLATA toll traffic from a CLEC's switch to a BST end office. The IntraLATA local/toll trunk groups allow a CLEC's end user to dial and make contact with a BellSouth end user, or Wireless Service Provider.

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ORDERING OF "LT" TRUNKS— TWO WAY

IntraLATA local/toll trunk groups, allow a CLEC's end user to dial and make contact with a BellSouth end user, or Wireless Service Provider.

This group can be ordered as a 2-way trunking arrangement for local traffic and IntraLATA toll.

This group may be ordered to an end office, or access tandem.

The ordering criteria is as follows:

- BST's IT group and the CLEC ordered LT group can be combined resulting in—
    - 2-way CMC recording (ASR TRF TYPE = LT) when ordered to an access tandem
    - 2-way ATC recording (ASR TRF TYPE = LT) when ordered to an end office

- The CLEC will initiate a 2-way trunk Access Service Request (ASR) which will be jointly provisioned

- Point of Interconnection (POI) will be located at a mutually agreed location or point designated by BST. For new CLECs, 50/50 traffic split will be assumed and no billing will take place for non-recurring charges, or flat rated recurring charges for dedicated inter-office transport for the first 120 days. Then trended data will be used to assess transport charges. Trended data will be used to assess transport charges for existing CLECs

- Each company will bill minutes of use. When historical data is available, these percentages may be adjusted to include differences to account for usage patterns

- BellSouth will be responsible for the installation and maintenance of its trunks and facilities to the mutually agreed POI.

- The CLEC will be responsible for the installation and maintenance of its trunks and facilities to the mutually agreed POI

Facility Based CLEC Activation Requirements

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- DS1 ASR Interface Requirements for Two Way Trunks:

  REQTYP = MD

  ASR TTT = 3 for 2-way

  TRF TYP = LT

  CFAU = Y

  NCI = 04DS9, 04DS6, or 04QB++ (CO-LOCATION)

  NC1 = Facility NC Code

  MUXLOC = CLLI for T1 MUX

  CFA = NEW/T1/X-XX/ALOC/ZLOC

  LTP = XX

- CLEC NPA-NXX shown in RMKS of ICTQ1

  Note: All other ASR fields should be completed in accordance with the Access Service Ordering Guide (ASOG)

- DS3 ASR Interface Requirements for Two Way Trunks:

  REQ TYP = SD

  NC = MUX'D CODE (EXAMPLE HF-M ETC.)

  CFAU = Y

  NCI = 04DS6.44, OR 04QB+ (CO-LOCATION)

  LTP = XX

- In the event an agreement cannot be reached on the location of the POI, each company will establish its own POI, and order separate trunk groups to each company's respective independent POI.

Any question regarding Two Way Trunking arrangements should be referred to the assigned Account Team Representative.

- Transiting Group (BellSouth is Intermediary)

- ASR Traffic Type (TRF TYP = TS)

Facility Based CLEC Activation Requirements

The transiting trunks are FGD (MF), or where technically feasible, CCS-SS7 two way trunk groups (or two one-way groups) ordered from the CLEC's switch to an access tandem for the purpose of originating and/or terminating traffic to an:

Interexchange Carrier
Independent Company
Another CLEC

- E911 Trunks

  The CLEC may order these trunks from its switch to an E911 access tandem for the purpose of terminating emergency traffic from the CLEC's switch to the E911 tandem. These trunk groups are one way trunk groups.

- Direct Inward Dial (DID) Trunks

  Direct Inward Dial trunk groups are direct end office only CCSAC groups used for Service Provider Number Portability (SPNP). The former BST seven (7) digit telephone number is delivered to the CLEC who in turn converts these digits to the new telephone number for the end user

- CHOKE Trunks

  A terminating trunk group used for the purpose of Choking locally defined CHOKE codes.

EXAMPLE

Phone numbers with Choke NXXs used to route traffic destined for local Choke codes NXXs used by radio stations to control mass calling.

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Reciprocal compensation for Local Interconnection arrangements will be
handled via contractual arrangements with each individual CLEC or
through a Local Interconnection tariff, if applicable.

███████████████████████████

Record exchanges for the purpose of verifying each other's minutes of usage
will be handled either as business as usual for access type arrangements or
via contractual arrangements if the CLEC desires.

███████████████████████████

Access Service Requests (ASRs) will be the documents used by the CLECs
when requesting facility based services. The ASR will contain ordering,
billing and provisioning information specific to the types of services ordered.

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(1) LUP: Intrastate IntraLATA Usage Percentage - This factor represents the percent local usage (PLU). The PLU will represent the percent of intrastate usage that is local usage. When an end user initially orders service, this factor must be provided. The factor will be entered in the LUP field of the ASR. Any future changes to the initial factor will be reported via a quarterly jurisdictional report.

Step 1: Identify intrastate MOUs from the CLEC that terminate to BellSouth end offices

Step 2: Eliminate any terminating party pay traffic, e.g., 800 traffic

Step 3: Identify local usage (this includes any usage in the expanded local calling area) terminating to BellSouth end offices

Step 4: Eliminate any local terminating party pay traffic

Step 5: Divide the result of step 4 by the result of step 2 to obtain the PLU.

EXAMPLE:

Step 1: 11,250,000 (total traffic terminating to BST) - 600,000 (interstate traffic terminating to BST) = 10,650,000 (total intrastate traffic terminating to BST)

Step 2: 10,650,000 (intrastate traffic terminating to BST) - 65,000 (intrastate terminating party pays traffic = 10,585,000

Step 3: 10,000,000 (Total local terminating traffic) - 0 (Total local terminating party pays traffic) = 10,000,000

Step 4: 10,000,000 (local terminating traffic) divided by 10,585,000 (local + intrastate-intrastate terminating party pays) = 94.47%

Step 5: Round 94.47 to nearest whole number. PLU equals 94%

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(2) REQTYP: Requisition Type - Enter MD

(3) TQ: Translation Questionnaire

- Enter "DY" for Trunk Installations

- Enter "DX" for Switch Translations Only

Attach a copy of the completed TQ for switch and trunk translations.

Translation Items Expected or Required in EXACT

(4) UNIT: "C" = Number of Trunks ordered

(5) LTP : Local Transport - Enter the applicable transport/trunk code.

(6) BAN: "N" = New Billing Account Number Requested.

(7) ACTL: Access Customer Terminal Location - Enter the eleven character CLLI code of the point of interface.

(8) NC: Refer to Bellcore BR 795-403-100 Common Language Network Channel Interface Guide for Service Code Definitions.

Select one of the following:

TRFTYP = LT	TRFTYP = TS	
SH-D	SBUC *	SDSA *
SHSA *	SDUC *	SBSA *
SHSC *		SDSC *

When SS7 Trunks are ordered, enter the Link Signaling Transport Port (STP) CLLI in Remarks and the STP Point Code in CSPC

(9) NCI: Network Channel Interface Code (Digital or Analog Code)

- If Digital, New or Existing, Facility ID (CFA) must also be entered

(10) TTT: Transport Trunk Termination Code

- LT TTT = 2 or 3

- TS TTT = 1, (1 & 2) or 3

- DID TTT = 1

- CHOKE TTT = 2

- E911 TTT = 2

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(11) TRFTYP: Traffic Type

- ATC = LT
- CMC = TS
- DID = PN
- CHOKE = CH
- E911 = E9

(12) SECLOC: Eleven character CLLI Code of one of the following:

- ATC = LT
- CMC = TS
- E911 = E911 Tandem
- DID = End Office
- CHOKE = Access Tandem

████████████████████

Intervals must be negotiated. Intervals for the initial start of service or for the establishment of new trunk groups are typically in the range of 2-6 weeks. Intervals for the addition of trunks to an existing trunk group are typically in the range of 1 - 2 weeks. The committed due dates will be dependent upon the quantity and type of trunks, equipment/facility availability, work load, etc. The committed due date will be returned on the firm order confirmation.

████████████████████

Refer to Section E6 of the state access tariff for specific rates associated with the billing of:

- Local Channel
- Switched Transport
- Tandem Switching
- Local Switching
- Interconnection
- Carrier Common Line

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CALLING NAME QUERY SERVICE

BASIC SERVICE DESCRIPTION

This service provides a method for companies selling Calling Name Delivery (using the technology defined in Bellcore Technical Reference 1188) to query, in response to an incoming call to a CNAM customer, the names of BellSouth customers. Also included is the ability to query, in response to an incoming call to a CNAM customer, for all other names stored in the BellSouth (BST) Calling Name Database under contracts BellSouth may have with other companies that store their names in the BellSouth CNAM database. This service requires the purchasing company to allow access to the names that are stored in its database by all other companies that contract with BST for the BST Calling Name Query Service (non-database owner version). Responses to queries will be returned by BST using TR 1188 standards.

BASIC SERVICE CAPABILITIES AND RESTRICTIONS

Included as parts of this service are the following items: STP translations required to route queries to the appropriate database (either as intermediate Global Translations alone or a combination of intermediate and final Global Translations); lookup of a TR 1188 formatted calling party name (fifteen character maximum) from the BST CNAM Database; formatting of a TR 1188 response message containing the necessary routing information and the appropriate response from the BST CNAM Database; STP translations required to route the response message to the querying end office. Access to BST names must be on a reciprocal basis, i.e., in order for a CLEC to access the BST names, BST must be able to access the CLEC names.

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How Does This Service Work:

The CLEC must have a Calling Name Database and an SS7 network capable of sending and receiving CNAM query/response SS7 messages in the TR1188 TCAP format. Queries are launched into the BST SS7 Network via SS7 links. (SS7 links are purchased through the SS7 Interconnection Tariffs.) Responses are returned via SS7 links. All CNAM queries and responses must be in the TR1188 format for both BST and the interconnecting CLEC. BST will provide access to all names stored within its CNAM Database and the CLEC must allow access to all names provided within its CNAM database.

Feature Interaction

All feature interactions are at switch level and are controlled by the CLEC switch.

Normal Installation Intervals— NO

Project Coordination Required— YES

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INFORMATION REQUIRED:

NPA/NXXs included in CLEC database, point codes for all involved offices, requested service and test dates, single point of contact, LATAs included in service area, signaling point CLLIs, point(s) of interconnection (SS7) into the BST SS7 Network, and point codes of all CLEC connecting STPs and SCPs.

SOURCE OF INFORMATION:

Furnished by CLEC.

FORMS

To Be Developed

██████████████████████████████████

There is no customer education available/necessary for this service.

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800 Access 10-Digit Screening

800 Access 10-Digit Screening (ATDS) service provides the information necessary for routing 800 originating calls based on the dialed 10-digit 800 number except for 800 calls to Canada, Bermuda, and the Bahamas. Routing for 800 calls to these areas will be based on the first 6-digits of the dialed 800 number.

The routing information is retrieved through queries to the Service Control Point (SCP). Competitive Local Exchange Carriers (CLECs) with Signal Transfer Points (STPs) may access BellSouth's Regional STP for the launching of queries to BellSouth's Service Control. CLECs without STPs or without third party STPs, must send the calls to BellSouth's Access Tandem for call completion.

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CLECs with their own STP or utilizing a third party STP must order SS7 links
and ports to connect directly to BellSouth's Regional STP for SCP database
query information. Refer to CCS-SS7 Signaling Connection for information
concerning ordering links.

ASR Page Screen

In addition to the ASR requirements outlined under CCS/SS7 Signaling
Connection (LINKS), the following requirements apply to the ordering of
800 10-digit Screening:

*REMARKS: Enter "Access to 800 SCP" and the CLLI code of the CLEC Switch
(ACSWITCH).*

Data Base Services Interconnection Form

1. CSPS: Enter the STP point code(s). If a third party link (LINK) provider is
    being used, the STP point code(s) of the link provider will be entered

2. ECCKT: Enter the exchange company's circuit of the links

3. TSC: Enter the TSC associated with the links

4. PSACT: Enter "N" for new

5. CSPC: Enter the switch point code(s)

6. OFC TYPE: Enter the office type of the switch originating the query

7. PC TYPE: Enter the type of point code.

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Intervals must be negotiated. Intervals for ordering access to the 800 SCP are typically ten (10) business days. If links are also being ordered, the due date will be ten days following completion of the links. The committed due date will be returned on the firm order confirmation.

████████████████████████████████

A per query charge, to be billed to the CLEC, will be applicable for each query launched to the database. The charges are found in Section E6.8.4 of the Access Tariff.

In addition to the query charge, if 800 10-digit screening via connection to the 800 SCP is requested, the following charges will also be applicable:

NRBFA - Change of service (per request)

NRBFD - Common block/translations rearrangement (one per STP)

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*The information contained in this manual is subject to updates and revisions. This material is current as of May 6, 1998.
Updates to this information will be posted on BellSouth Interconnection Services web page at—
http://www.bellsouth.com/interconnection
The information in this manual is superceded by any and all information on the web page.*

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UNBUNDLED TANDEM SWITCHING

BASIC SERVICE FEATURES

This functionality allows CLECs who are purchasing Unbundled Network Elements (UNEs) from BST to route calls between BST end offices, or between a CLEC switch and BST's end office(s).

BASIC SERVICE CAPABILITIES

Additionally, this service allows BST to provide an intermediary switching functionality, whereby, CLECs can route calls from their network to the network of other CLECs; IXCs; ICOs; etc. This is referred to as intermediary transit switching. Calls that originate from a BST end office within a tandem serving area will come to the tandem in order to be routed to a terminating location within that same serving area or to be transported to another tandem serving area, or to another network provider (i.e., CLEC, IXC, CMRS, ICO, etc.). A call coming to a tandem from a CLEC switch will be terminated within that tandem's serving area either to a BST end office or to another network provider.

The trunk port is a shared-use facility that provides the CLEC with the capability of terminating trunks into a tandem for the purpose of sending traffic to, and delivering traffic from, other locations outside of the dial-tone providing switch.

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PHYSICAL NETWORK CONFIGURATION

Switching Requirements

Switching Functionality (UTS-SF) - Basic Switching and Billing functions will be provided

Generic upgrades will be performed as deemed necessary by BST

Requests for features that require software and/or hardware not provided to BST will be priced out upon receipt of BFR.

Generic	1AE11	1AE12	5E9	5E10	NA004	
Trunk Port						
2 Wire						
4 Wire						

Signaling

SS7 or MF will be provided.

Recording (AMA etc.)

Line side local/toll 100% measured service recording.
All other applicable industry AMA standards will be recorded by BST.

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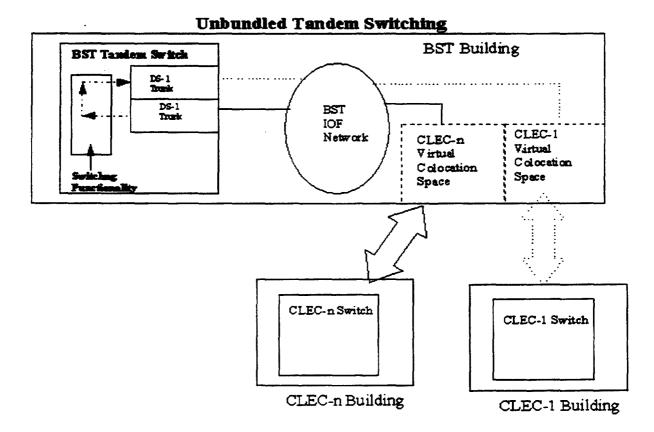
Transport/Interconnection

Calls originating from trunk ports will be transported via the BellSouth Public Switched Network (BPSN) or via trunk connections provided by other network providers interconnecting with the BellSouth Access Tandem.

CLECs will have the option of interconnecting at either the Access Tandem or Local Tandem. In areas with multiple local tandems exist, CLECs may elect to connect to one or more tandems as traffic dictates.

CLECs must interconnect to one access tandem in a local calling area for connection to Interexchange Carriers and IntraLATA toll

If a CLEC insists on single interconnection point within a LATA, the connection point would be at an access tandem and connectivity to cross-boundary switches would not be possible.

Drawing of Network Elements Unbundled Tandem Switching—
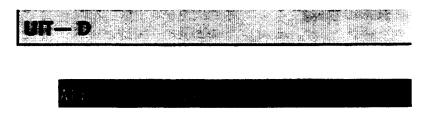
Unbundled Tandem Switching

BST Tandem Switch

DS-1 Trunk

DS-1 Trunk

Switching Functionality

BST IOF Network

BST Building

CLEC-n Virtual Colocation Space

CLEC-1 Virtual Colocation Space

CLEC-n Switch

CLEC-n Building

CLEC-1 Switch

CLEC-1 Building

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Facility Based CLEC Activation Requirements

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UIT—D

BASIC SERVICE FEATURES

Unbundled Interoffice Transport - Dedicated (UIT-D) provides a
transmission path, and its associated electronics, between BellSouth end
offices that allows a CLEC to transport DS0s (Voice or Data), DS1s, or DS3s
from one location to another. These facilities are dedicated to a single
network provider. These facilities may be configured in various
transmission configurations and will provide the same transport
capacities that exist in Section 6 of the FCC tariff (i.e., DS0, DS1 and DS3).
The structure of this UNE will also be consistent with the existing interoffice
transport elements in BellSouth's FCC tariff.

BASIC SERVICE CAPABILITIES AND RESTRICTIONS

CLECs can utilize UIT-D to transport their local, toll and access traffic
between BellSouth Central Offices. The interoffice mileage will be
computed based on the airline mileage between the BellSouth Central
Offices regardless of how UIT-D is actually routed.

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HOW DOES THIS SERVICE WORK?

UIT-D can be ordered at the DS0, DS1, or DS3 level in order to allow the CLEC to utilize BellSouth interoffice facilities to complete a service that they are providing for their end user.

General Description of Performance Standards/Reliability—

- Service Performance Objectives: This UNE will be designed to meet the transmission standards in our technical publications similar to those facilities used for Switched Access Dedicated interoffice transport
- Diversity Requirements: No requirements for UNEs but some level of diversity will exist in BST network (embedded and forward looking)
- Performance Monitoring: No specific requirement, however, network element will be monitored as part of BST network infrastructure
- Special Considerations: Billing Guarantees do not apply

Deployment Schedule—

- Ubiquitous deployment assuming current Central Office capabilities
- Additional transport capacities will be developed based on the Bona Fide Request (BFR) process. Special construction may apply as appropriate.

FEATURE INTERACTION

Since UIT-D is strictly a DS0, DS1, or DS3 interoffice transport service, it is the responsibility of the CLEC to insure that other UNEs purchased from BellSouth and/or portions that they provide themselves are compatible with the UIT-D element options that they are ordering.

This would include such options as DS1 framing and formatting (e.g., ESF/B8ZS).

A CSPS Service Inquiry will be required for UIT-D DS3 level service requests and for DS1 level service requests associated with Unbundled Channelization (UC).

All CLEC requests for UIT-D, except those combined with an Unbundled Local Switching (ULS) port, should be sent to the LCSC via an ASR with UNE** (where ** is a number representing a particular UNE to collocation arrangement or UNE combination. These requests will have the same field requirements as Special Access services as far as NC, NCI, SECNCI, ACTL, SECLOC, ACNA, and other fields. The LCSC will then issue a Service Order for either a CLS or CLF circuit to CABS. These requests will have the same field requirements as Special Access services as far as NC, NCI, SECNCI, ACTL, SECLOC, ACNA, and other fields.

All CLEC requests for UIT-D combined with an Unbundled Local Switching (ULS) port, should be sent to the LCSC via an MSR. The LCSC will then issue a Service Order for a Foreign Exchange type service (Telephone # Format) to the CRIS Billing System.

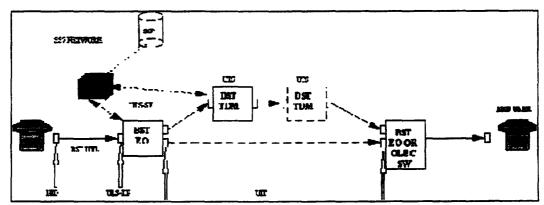Customer Education for the ordering of UIT-D is available upon request from the CLEC Account Team.

Facility Based CLEC Activation Requirements

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UIT—S

BASIC SERVICE FEATURES

Unbundled Interoffice Transport - Shared (UIT-S) provides a transmission path, and its associated electronics, between switching locations that allows a call to be transported from one location to another. These facilities/trunk groups are shared among all network providers that require calls to be transported between particular switching locations. These facilities/trunk groups may be transported over various transmission configurations (e.g., DS1, OC3, etc.) based on total shared network requirements. An example of a typical configuration for this UNE is as follows:

Typical UIT-S Configurations—

In the above diagram, Unbundled Interoffice Transport - Shared applies to the transport portion of the service only (i.e., the Tandem Switch and the End Office Switch are excluded from this rate element.) The elements associated with UIT-S include the physical transport facilities (i.e., fiber), any regenerating equipment, the facility terminating equipment such as fiber optic terminals, multiplexes, etc.